

We Claim:

1. A method of treating turbid water which comprises aerating a source of turbid water with an air stream to diffuse, dilute and reduce the opacity of the water concentration through the aeration process, and simultaneously exposing said aerated water to a source of UV radiation for a time sufficient to sanitize and/or sterilize said turbid water.

2. A method for disinfecting turbid liquids which comprises:

(a) providing an enclosed sealed cartridge which has an air inlet and turbid water inlet at one end thereof,

(b) providing an air stream sufficient to aerate and move said water adjacent a source of UV radiation contained within said cartridge,

(c) continuing said process for a time sufficient to disinfect said water, and

(d) recovering said treated water in a water collection means.

3. A method of treating turbid water which comprises diffusing a stream of turbid water to form water droplets and agitating and suspending said water droplets in an air stream and simultaneously exposing said water droplets to a source of UV for a time sufficient to sanitize and/or sterilize said water.

4. A method for disinfecting turbid liquids which comprises:

(a) providing an enclosed sealed cartridge which has an air inlet and turbid water inlet,

(b) diffusing said turbid water within said chamber to the form of water droplets,

(c) providing an air stream from said air inlet sufficient to form, support, and agitate droplets of water adjacent a source of UV radiation contained within said cartridge,

(d) continuing said process for a time sufficient to disinfect said water droplets, and

(e) recovering the sterilized droplets of water in a water collection means.